

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1-9. (Canceled)
10. (Canceled) A ring generator comprising: an opposed piston, opposed cylinder engine having a crankshaft; a ring assembly having a plurality of blades radially-disposed from a shaft coupled to the crankshaft, and a magnetic flux generating element; and a current conducting element disposed in fixed relation to the ring assembly.
11. (Canceled)
12. (Canceled) The ring generator of claim 10 wherein the magnetic flux generating element is a plurality of alternating polarity magnets.
13. (Canceled) The ring generator of claim 10 wherein the magnetic flux generating element comprises a circumferential element comprising a ferrous material.
14. (Canceled) A ring generator comprising: an opposed piston, opposed cylinder engine having a crankshaft; a ring assembly having a shaft coupled to the crankshaft, and a magnetic flux generating element; and a current conducting element disposed in fixed relation to the ring assembly wherein the current conducting element is a stator assembly.

15. (Canceled) The ring generator of claim 14 wherein the stator assembly comprises a three-phase winding.

16-21. (Canceled)

22. (Original) A ring generator comprising:

a first rotatable hub having a first hub axis of rotation;

a first plurality of blades coupled to, radially-disposed from, and spread around the first rotatable hub;

an engine coupled to the first rotatable hub so as to impart rotary motion to the first rotatable hub;

a first magnetic flux generating element;

a first current conducting element;

wherein either the first magnetic flux generating element or the first current conducting element is fixedly disposed in relation to the first rotatable hub at a specified radius; and

the first magnetic flux generating element and the first current conducting element cooperate so that during rotation of the first rotatable hub, an electric current flow is induced in the first current conducting element.

23. (Original) The ring generator of claim 22 wherein the first plurality of blades is in substantially coplanar arrangement.

24. (Currently Amended) The ring generator of claim 22 wherein the engine is disposed within ~~[[the]]~~ a cylinder defined by the specified radius and the first hub axis of rotation.

25. (Original) The ring generator of claim 22 wherein the blades are adapted to provide propulsive thrust when the first rotatable hub rotates.
26. (Original) The ring generator of claim 25 further comprising an external electrical system of an aerial vehicle wherein the ring generator is electrically coupled to the external electrical system of the aerial vehicle so as to receive current from the first current conducting element based on its cooperation with the first magnetic flux generating element.
27. (Original) The ring generator of claim 22 further comprising a plurality of non-contiguous, symmetrically arranged arc segments arranged about a given radius at the end of the blades.
28. (Currently Amended) The ring generator of claim 22 wherein ~~[[the]]~~ a plurality of non-contiguous, symmetrically arranged arc segments comprises three arc segments arranged at about 120 degrees apart.
29. (Original) The ring generator of claim 22 further comprising a second current conducting element fixedly disposed in relation to the first current conducting element and arranged at about equidistant from the first current conducting element.
30. (Original) The ring generator of claim 22 further comprising:
a second rotatable hub having a second hub axis of rotation;

a second plurality of blades coupled to, radially-disposed from, and spread around the second rotatable hub;

a second magnetic flux generating element;

a second current conducting element;

wherein either the second magnetic flux generating element or the second current conducting element is fixedly disposed in relation to the second rotatable hub; and

the second magnetic flux generating element and the second current conducting element cooperate so that during rotation of the second rotatable hub, a second electric current flow is induced;

wherein the engine is coupled to the second rotatable hub so as to impart rotary motion to the second rotatable hub.

31. (Original) The ring generator of claim 30 wherein the first hub axis of rotation and the second hub axis of rotation are coextensive.
32. (Original) The ring generator of claim 31 wherein the rotary motion imparted to the first rotatable hub is in the opposite direction to the rotary motion imparted to the second rotatable hub.
33. (Original) The ring generator of claim 22 wherein the engine comprises a first opposed piston, opposed cylinder engine module.
34. (Original) The ring generator of claim 33 wherein the engine further comprises a second opposed piston, opposed cylinder module.

35. (Original) The ring generator of claim 34 further comprising a clutching mechanism coupled between an engine module and the first rotatable hub to decouple the engine module from imparting rotary motion to the first rotatable hub.
36. (Original) The ring generator of claim 34 wherein the engine further comprises a third opposed piston, opposed cylinder module.
37. (Original) The ring generator of claim 22 wherein the engine has a weight to power ratio of about 0.76 to about 2.46 horsepower per pound.
38. (Original) The ring generator of claim 37 wherein the engine has a power output of about 9 to about 42 horsepower.
39. (Original) The ring generator of claim 37 wherein the engine has a weight to power ratio of about 1.21 to about 2.25 horsepower per pound.
40. (Original) The ring generator of claim 39 wherein the engine has a power output of about 1.5 to about 35 horsepower.
41. (Original) The ring generator of claim 22 wherein the magnetic flux generating element is fixedly disposed in relation to the first rotatable hub.
42. (Original) The ring generator of claim 41 further comprising a second magnetic flux generating element that is fixedly disposed in relation to the first rotatable hub at a specified radius.